

Applicant : Kenneth E. Feuerman  
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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer-implemented method for generating ~~[[a]]an audio-based~~ form including one or more data fields, the method comprising:
  - defining zoning information identifying a location of the one or more data fields of the audio-based form;
  - defining structural information about the one or more data fields;
  - encoding the zoning and structural information in one or more audio signals according to ~~a symbology defined by rules for encoding information in a medium in which the form will be presented;~~ and
  - incorporating the one or more audio signals including the encoded zoning and structural information into the audio-based ~~in a representation of the form to be presented in the medium.~~
- 2.-7. Cancelled.
8. (Currently Amended) The method of claim 1, wherein ~~the medium is an audio medium~~ and the zoning information includes a temporal location of each of the one or more data fields in an audio recording and temporal dimensions of each of the one or more data fields.
9. (Original) The method of claim 1, wherein the structural information includes a name for each of the one or more data fields.
10. (Original) The method of claim 1, wherein the structural information includes a description of user data expected to be filled in each of the one or more data fields.

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11. (Currently Amended) The method of claim 1, wherein data entered on the form by a user can be extracted from the audio-based form~~representation~~ based on the encoded zoning and structural information without access to a source of zoning or structural information external to the form.

12. (Currently Amended) A computer-implemented method for creating ~~[[a]]~~an audio-based form including one or more data fields, the method comprising:

generating a form definition defining the audio-based form, the form definition including zoning information identifying a temporal location of the one or more data fields and structural information about the one or more data fields;

encoding the zoning and structural information into one or more audio signals~~according to a symbology defined by rules for encoding information in a medium in which the form will be presented~~; and

incorporating the one or more audio signals including the encoded zoning and structural information ~~in a representation of~~ into the audio-based form to be presented in the medium;

wherein audio data entered ~~[[on]]~~into the audio-based form by a user can be extracted from the audio-based form~~representation~~ based on the encoded zoning and structural information without access to a source of zoning or structural information external to the audio-based form.

13. (Withdrawn) A computer-implemented method comprising:

receiving an electronic representation of a form including user data associated with one or more data fields, the form incorporating zoning information identifying a location of the one or more data fields and structural information about the one or more data fields, the zoning and structural information encoded according to a symbology defined by rules for encoding information in a medium in which the form is presented to a user;

decoding the zoning and structural information; and

extracting the user data from the electronic representation of the form using the decoded

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zoning and structural information without access to a source of zoning or structural information external to the electronic representation of the form.

14. (Withdrawn) The method of claim 13, wherein the medium is a visual medium and the electronic representation of the form comprises a PDF file.

15. (Withdrawn) The method of claim 13, wherein the medium is a visual medium and the electronic representation of the form comprises a TIFF file.

16. (Withdrawn) The method of claim 13, wherein the medium is an audio medium and the electronic representation of the form comprises a digital audio file.

17. (Withdrawn) The method of claim 13, wherein the medium is a visual medium and the encoded zoning and structural information comprises a graphical symbol.

18. (Withdrawn) The method of claim 17, wherein the graphical symbol is a two-dimensional symbol.

19. (Withdrawn) The method of claim 18, wherein the two-dimensional symbol is a two-dimensional barcode.

20. (Withdrawn) The method of claim 13, wherein the medium is an audio medium and the encoded zoning and structural information comprises an audio signal.

21. (Withdrawn) The method of claim 13, wherein the zoning and structural information is represented in XML.

22. (Currently Amended) A computer-implemented method for creating [[a]]an audio-based form including one or more data fields, the method comprising:

generating a form definition defining the audio-based form, the form definition including zoning information identifying a location of the one or more data fields;

encoding the zoning information in one or more audio signals~~according to a symbology~~

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~~defined by rules for encoding information in a medium in which the form will be presented; and~~  
incorporating the one or more audio signals including the encoded zoning information  
~~into a representation of the audio-based form to be presented in the medium;~~

wherein data entered ~~[[on]]~~ into the audio-based form by a user can be extracted from the  
audio-based form representation based on the encoded zoning information without access to a  
source of zoning information external to the audio-based form.

23. Cancelled.

24. (Currently Amended) A computer program product, tangibly stored on a computer-readable medium, for generating ~~[[a]]~~ an audio-based form including one or more data fields, comprising instructions operable to cause a programmable processor to:

define zoning information identifying a location of the one or more data fields of the form;

define structural information about the one or more data fields ;

encode the zoning and structural information into one or more audio signals according to a symbology defined by rules for encoding information in a medium in which the form will be presented; and

incorporate the one or more audio signals including the encoded zoning and structural information ~~into a representation of the audio-based form to be presented in the medium.~~

25.-30. Cancelled.

31. (Currently Amended) The computer program product of claim 24, wherein ~~the medium is an audio medium and~~ the zoning information includes a temporal location of each of the one or more data fields in an audio recording and temporal dimensions of each of the one or more data fields.

32. (Original) The computer program product of claim 24, wherein the structural information includes a name for each of the one or more data fields.

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33. ((Currently Amended)) The computer program product of claim 24, wherein the structural information includes a description of user data expected to be ~~[[filled]]~~received in each of the one or more data fields.

34. ((Currently Amended)) The computer program product of claim 24, wherein data entered on the audio-based form by a user can be extracted from the audio-based form~~representation~~ based on the encoded zoning and structural information without access to a source of zoning or structural information external to the audio-based form.

35. ((Currently Amended)) A computer program product, tangibly stored on a computer-readable medium, for creating ~~[[a]]~~an audio-based form including one or more data fields, comprising instructions operable to cause a programmable processor to:

generate a form definition defining the audio-based form, the form definition including zoning information identifying a temporal location of the one or more data fields and structural information about the one or more data fields;

encode the zoning and structural information into one or more audio signals according to a symbology defined by rules for encoding information in a medium in which the form will be presented; and

incorporate the one or more audio signals including the encoded zoning and structural information in a representation of into the audio-based form to be presented in the medium;

wherein data entered ~~[[on]]~~into the form by a user can be extracted from the audio-based form~~representation~~ based on the encoded zoning and structural information without access to a source of zoning or structural information external to the audio-based form.

36. (Withdrawn) A computer program product, tangibly stored on a computer-readable medium, comprising instructions operable to cause a programmable processor to:

receive an electronic representation of a form including user data associated with one or more data fields, the form incorporating zoning information identifying a location of the one or more data fields and structural information about the one or more data fields, the zoning and structural information encoded according to a symbology defined by rules for encoding

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information in a medium in which the form is presented to a user;  
decode the zoning and structural information; and  
extract the user data from the electronic representation of the form using the decoded zoning and structural information without access to a source of zoning or structural information external to the electronic representation of the form.

37. (Withdrawn) The computer program product of claim 36, wherein the medium is a visual medium and the electronic representation of the form comprises a PDF file.

38. (Withdrawn) The computer program product of claim 36, wherein the medium is a visual medium and the electronic representation of the form comprises a TIFF file.

39. (Withdrawn) The computer program product of claim 36, wherein the medium is an audio medium and the electronic representation of the form comprises a digital audio file.

40. (Withdrawn) The computer program product of claim 36, wherein the medium is a visual medium and the encoded zoning and structural information comprises a graphical symbol.

41. (Withdrawn) The computer program product of claim 40, wherein the graphical symbol is a two-dimensional symbol.

42. (Withdrawn) The computer program product of claim 41, wherein the two-dimensional symbol is a two-dimensional barcode.

43. (Withdrawn) The computer program product of claim 36, wherein the medium is an audio medium and the encoded zoning and structural information comprises an audio signal.

44. (Withdrawn) The computer program product of claim 36, wherein the zoning and structural information is represented in XML.

45. (Currently Amended) A computer program product, tangibly stored on a computer-readable medium, for creating [[a]]an audio-based form including one or more data fields,

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comprising instructions operable to cause a programmable processor to:

generate a form definition defining the audio-based form, the form definition including zoning information identifying a location of the one or more data fields;

encode the zoning information into one or more audio signals according to a symbology defined by rules for encoding information in a medium in which the form will be presented; and

incorporate the one or more audio signals including the encoded zoning information into a representation of the audio-based form to be presented in the medium;

wherein data entered [[on]]into the audio-based form by a user can be extracted from the audio-based form representation based on the encoded zoning information without access to a source of zoning information external to the form.

46. Cancelled.